

CORRECTED DATA FOR SEPTEMBER 1940

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS

District and station	Elevation of instruments			Pressure			Temperature of the air								Precipitation			Wind					Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month					
	Barometer above sea level	Thermometer above ground	Anemometer above ground	Station, reduced to mean of 24 hours	Sea level, reduced to mean of 24 hours	Departure from normal	Mean max.+mean min.+2	Departure from normal	Maximum	Date	Mean maximum	Minimum	Date	Mean minimum	Greatest daily range	Mean wet thermometer	Mean temperature of the dew point	Mean relative humidity	Total	Departure from normal	Days with .001 inch or more	Average hourly velocity							Prevailing direction	Maximum velocity			
																														Miles per hour	Direction	Date	
<i>Upper Mississippi Valley</i>	<i>Ft.</i>	<i>Ft.</i>	<i>Ft.</i>	<i>In.</i>	<i>In.</i>	<i>In.</i>	°F. 66.8	°F. +1.5	°F.		°F.	°F.		°F.	°F.	°F.	°F.	% 70	<i>In.</i> 0.92	<i>In.</i> -2.7		<i>Mi.</i>									0-10 3.7	<i>In.</i>	<i>In.</i>
Minneapolis, St. Paul, Minn.	919	32	61	29.08	30.06	+ .07	65.3	+3.9	91	19	76	36	26	54	36	57	52	71	.41	-2.7	5	9.4	s.	28	nw.	9	14	10	6	4.0	.0	.0	
Springfield, Minn.	1,025	4	42	28.97	30.06	+ .08	66.0	+1.8	93	7	78	34	25	54	33	57	52	.94	-3.7	3	4.6	s.	19	nw.	20	12	10	8	4.8	.0	.0		
La Crosse	714	11	48	29.32	30.09	+ .09	62.9	+2.5	87	20	74	37	26	54	29	56	52	.77	.26	-3.7	6	4.6	s.	27	nw.	20	12	10	8	4.8	.0	.0	
Madison	974	70	78	29.32	30.12	+ .09	62.9	+2.5	87	20	72	40	26	54	28	55	52	.78	.84	-2.9	7	6.5	s.	16	ne.	24	13	6	6.0	.0	.0		
Charles City	1,014	10	51	29.02	30.11	+ .11	63.6	+2.6	88	7	75	36	25	52	32	56	52	.76	2.63	-1.0	5	5.1	se.	17	sw.	27	19	8	3.2	.0	.0		
Davenport	606	66	161	29.45	30.12	+ .09	67.2	+1.6	93	21	78	40	25	56	28	56	53	.74	1.69	-1.0	2	5.1	sw.	24	ne.	24	13	6	3.4	.0	.0		
Des Moines	860	5	99	29.16	30.08	+ .06	67.6	+2.0	92	21	79	36	26	56	32	58	52	.67	1.35	-3.3	2	5.0	se.	24	n.	24	17	9	4.4	.0	.0		
Dubuque	699	60	79	29.36	30.10	+ .07	64.9	+1.9	91	20	76	36	26	54	31	57	53	.72	1.48	-2.8	2	4.7	s.	15	n.	9	14	7	4.6	.0	.0		
Keokuk	614	64	78	29.44	30.09	+ .06	68.0	+1.5	93	21	80	41	26	57	31	58	52	.64	1.48	-3.5	1	5.4	sw.	19	sw.	13	20	4	3.0	.0	.0		
Cairo	358	87	93	29.69	30.07	+ .02	70.9	+6.4	94	22	82	45	27	60	31	60	55	.64	1.75	-1.1	2	5.8	ne.	28	n.	24	16	7	7.9	.0	.0		
Peoria	609	11	45	29.45	30.11	+ .07	66.6	+2.3	94	20	79	34	26	54	36	56	52	.73	1.16	-2.9	3	3.9	ne.	14	ne.	25	21	5	4.2	.0	.0		
Springfield, Ill.	636	5	191	29.42	30.10	+ .05	68.8	+1.2	95	21	81	40	27	57	30	55	50	.68	.38	-3.3	2	4.3	s.	25	n.	24	16	8	6.3	.0	.0		
St. Louis	568	179	303	29.49	30.09	+ .05	71.8	+1.3	95	20	82	44	26	61	29	59	51	.53	.03	-3.4	1	8.2	ne.	24	nw.	9	20	6	4	3.0	.0	.0	
<i>Missouri Valley</i>							69.1	+2.8										68	1.28	-1.9										4.5			
Columbia, Mo.	784	6	66	29.26	30.10	+ .07	69.2	+1.0	95	20	82	39	11	57	38	59	54	69	.32	-4.0	4	5.7	e.	19	nw.	10	17	8	5	3.5	.0	.0	
Kansas City	963	38	76	29.06	30.07	+ .05	70.0	+1.1	94	8	81	37	26	59	35	61	56	.68	1.30	-3.3	4	8.0	sw.	28	nw.	9	10	12	8	4.7	.0	.0	
St. Joseph	967	11	49	29.06	30.08	+ .06	69.6	+1.2	93	21	80	37	26	59	33	60	57	.80	.78	-3.1	8	7.0	s.	20	n.	9	16	10	4	3.5	.0	.0	
Springfield, Mo.	1,324	5	78	28.70	30.10	+ .07	67.8	+1.1	90	9	79	36	12	56	36	60	56	.75	2.42	-1.1	4	8.1	se.	30	n.	24	16	4	10	4.5	.0	.0	
Topeka	1,087	65	87	29.03	30.07	+ .06	70.2	+1.5	98	8	81	38	26	59	35	61	56	.68	1.20	-2.6	8	7.8	s.	23	n.	9	8	11	11	5.7	.0	.0	
Lincoln	1,189	11	81	28.80	30.04	+ .05	70.6	+2.0	100	8	83	38	11	58	41	58	52	.64	1.74	-1.2	4	9.1	s.	25	n.	9	12	13	5	4.2	.0	.0	
Omaha	1,105	31	44	29.03	30.06	+ .06	69.0	+2.2	95	7	81	38	25	57	36	59	54	.66	.56	-2.6	4	9.3	se.	25	sw.	8	14	9	7	4.4	.0	.0	
Valentine	2,598	46	54	27.32	30.05	+ .04	68.6	+6.1	100	7	82	30	11	55	44	57	50	.62	1.22	-1	7	8.7	s.	30	sw.	18	8	11	11	5.5	.0	.0	
Sioux City	1,138	64	106	28.85	30.00	+ .07	68.0	+4.6	94	7	79	35	12	56	45	58	54	.69	2.77	-3	4	8.8	s.	29	sw.	7	10	12	8	4.7	.0	.0	
Huron	1,301	26	41	28.64	30.02	+ .06	68.0	+6.7	98	2	82	29	25	54	53	56	49	.60	.52	-1.0	6	13.5	s.	40	sw.	15	11	14	5	4.5	.0	.0	

SEVERE LOCAL STORMS

[Compiled by Mary O. Souder from reports submitted by Weather Bureau officials]

[The table herewith contains such data as has been received concerning severe local storms that occurred during the month. A revised list of tornadoes will appear in the United States Meteorological Yearbook]

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Washington, D. C.	7					Snow	The heaviest snow ever recorded in March, 8 inches, measured during this storm. Traffic delayed and thousands of Government workers were forced to walk home. All available snow removal equipment and 1,500 city employees ordered out to clean highways and streets.
Maryland, throughout the State.	7					do	At 10 p. m., 9 inches of snow was measured. Between 5 and 6 p. m., street cars in all sections of Baltimore, Md., were at a standstill, halted by motorists helplessly skidding on slippery streets. Though not serious, many accidents were reported. Steamer traffic delayed, some dropped anchor until the weather cleared.
New York State, except extreme western portion.	9-11					do	Heavy snow drifted badly; some schools closed; motor traffic delayed.
South Dakota	15	9 p. m.-mid-night.				High wind, rain, and snow.	Property damaged; traffic by cars, planes, and trucks hampered badly with some cancellation. High northerly winds and low temperatures continued throughout the day of the 16th.
North Dakota-Minnesota	15-16			32	\$250,000	Blizzard	This storm was centered over northern Minnesota at 6:30 a. m. of the 15th. At 12:30 a. m., of the 16th, the low-pressure area was centered north of Lake Superior. The wind was 12 miles per hour from the southwest at Moorhead, Minn., just before the sudden wind-shift occurred at 9:25 p. m., of the 15th. By 9:30 p. m., the wind had shifted to the northwest and the Fargo airport recorded 46 miles per hour at 9:35 p. m. Extreme wind velocity of 85 miles from the northwest, was recorded at Grand Forks, N. Dak. Snowfall was light. The ground was covered in northern counties with considerable snow from previous storms and the wind caused much drifting, the drifts measuring from 10 to 12 feet in north-central counties. A number of farmers who were out-of-doors collapsed and were frozen to death not far from their homes. Many motorists who were stranded on the highways or went off the road because of poor visibility were found dead from being frozen to death in their stalled cars, from being overcome by carbon monoxide gas, or from sheer exhaustion as they collapsed after abandoning their automobiles to seek shelter. Thousands of birds perished as well as some livestock and much poultry. Small property damage and some damage to overhead wire systems. Thirty-two persons lost their lives in Minnesota. There were many cases of frost bite, some serious enough to require amputation of arms or legs.
Wisconsin	15-17			1		Snow	Strong winds drifted the snow measuring 0.5 to 4.0 inches in the northern portion of the State. Only side roads became impassable and many automobiles were stalled. 3 men, working on stalled cars were injured, 1 fatally, when struck by cars whose drivers were unable to see in the blinding snowstorm.
Michigan	16					do	The storm swept over Michigan from the northwest, accompanied by strong winds and a sudden fall in temperature. Driving hazardous; little property damage reported.
New York State	17-19			9		do	Light to moderate snow accompanied by low temperatures and high winds caused the worst blizzard conditions of the winter. Many main highways blocked, most secondary roads impassable, hundreds of motorists marooned in highways and rural towns, bus schedules canceled and train service delayed. Many schools closed from 1 to 2 days.
Hutchinson, Kans.	31	2 p. m.	17	0	50	Tornado	A vortex was observed. Roofs on several houses damaged; path about 400 yards long.